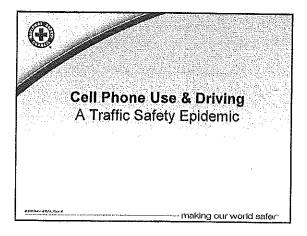


— making our world safer

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2016 Municipal Judges Conference
April 19, 2016
David Teater

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Our Mission

The National Safety Council saves lives by preventing injuries and deaths at work, in homes and communities, and on the roads through leadership, research, education and advocacy.

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Motor vehicle crashes

- 1 million people have died in motor vehicle crashes in the last 25 years
- · 35,000 deaths each year in the U.S.
- Leading cause of on and off-the-job unintentional deaths in the U.S.
- · Leading cause of death for people 5- to 35 years old
- Cost to society = \$100 billion per year
- Society appears to have grown complacent, accepting these deaths and injuries
- · Safety engineering has made significant advances

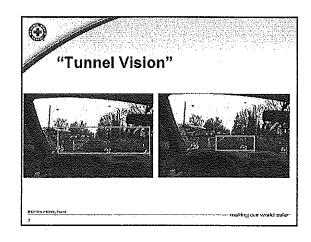
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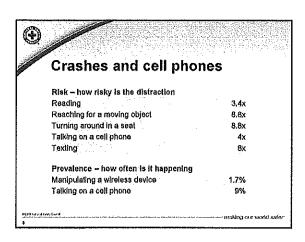
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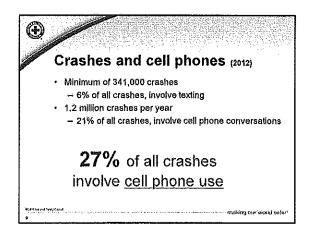
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	Motor vehicle crashes
	Vehicle maintenance factors
	 Critical reason for crash – 2% of the time
	Environmental factors
	 Critical reason for crash – 2% of the time
	Human error
	 Critical reason for crash – 94% of the time
	Source: NHTSA Traffic Safety Facts, February 2016
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	Driving distractions
	The Science of Distraction
	Visual: eyes on road
	Mechanical: hands on wheel
	Cognitive: mind on driving
•	Visual and mechanical distractions are short lived - cognitive distractions last much longer
•	Much more than "eyes on the road, hands on the wheel"
ations	making part in median

	S	elective attention / switching
	1.	No such thing as "multi-tasking" When brains are overloaded by two cognitive tasks, people switch attention (without recognizing it)
	2.	Make one task "primary" and the other "secondary" Cognitive attention to driving becomes secondary to a phone conversation
	3.	When driving is a secondary task for the brain, driving becomes impaired Impairment takes several forms, including inattention blindness and tunnel vision
BNOW pull	ارمدويت	itylight our workt salist
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What we know about cell phone use and driving

Role of Mobile Phones in Motor Vehicle Crashes Resulting in Hospital Attendance
Suzanne P McEvoy, Mark R Stevenson, Anne T McCarll, et al - 2004

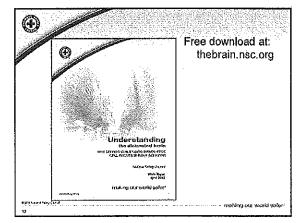
- Likelihood of crashing increases by 4x
- Risk was raised irrespective of whether or not a hands-free device was used



Hands-free and crash risk

Hands free devices do not reduce crash risk:

- National Safety Council
- National Transportation Safety Board
- World Health Organization
 Insurance Institute for Highway Safety
- Governors Highway Safety Association
- 30+ studies reported substantial negative effects of cell phone use on driving for hands-free and handheld phones
- Similar effects in reaction time, speed, headway and lateral lane position, for hands-free and handheld phones





What we know about cell phone use while driving

Comparison of the Cell Driver and Drunk Driver Strayer, Drews, et al, University of Utah - 2004

- · No difference between handheld and hands-free
- Cell phone distracted drivers have slower reaction times and were more likely to crash than drivers with a .08 BAC

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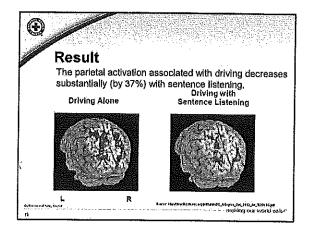
What we know about cell phone distraction

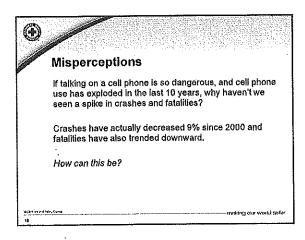
A Decrease in Brain Activation Associated With Driving

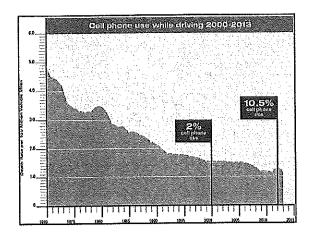
Carnegie Mellon University, Center for Cognitive Brain imaging - 2008

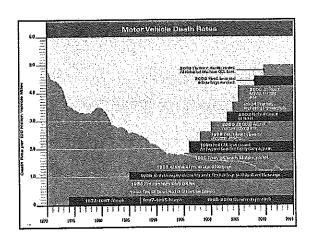
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Misperceptions

It's no more dangerous than talking to a passenger

- A passenger in a vehicle is aware of the driving situation and can even serve as an additional look-out
- · The phone carries a certain obligation of immediacy

There isn't enough evidence to prove that using a cell phone while driving causes crashes

- · Difficult to collect crash data
- · Much evidence, few statistics
- An absence of statistics does not prove or even indicate the absence of a problem

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Misperceptions

What about voice texting? That must be safer than typing texts, right?

- Two recent studies from AAA Foundation for Traffic Safety and Texas A&M found same result
- · Voice texting is more distracting than typing texts
- · Drivers look away more
- · It took longer to send a voice text

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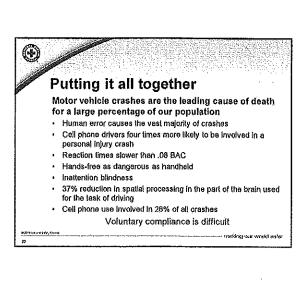
Misperceptions

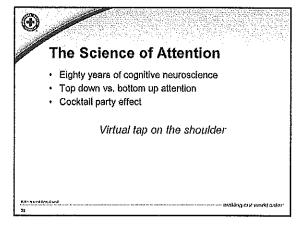
What about 2 way radios? Navigation? Books on tape?

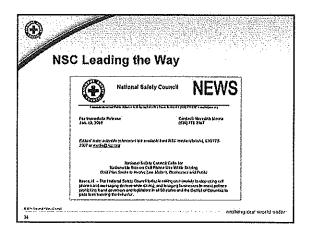
- · Simplex communication occurs in one direction only
- · Shorter duration and less complex
- Never input navigation while the vehicle is moving
- Voice directions may be less distracting than reading a map and street signs
- Not a two way, duplexed conversation. Easier to disengage.

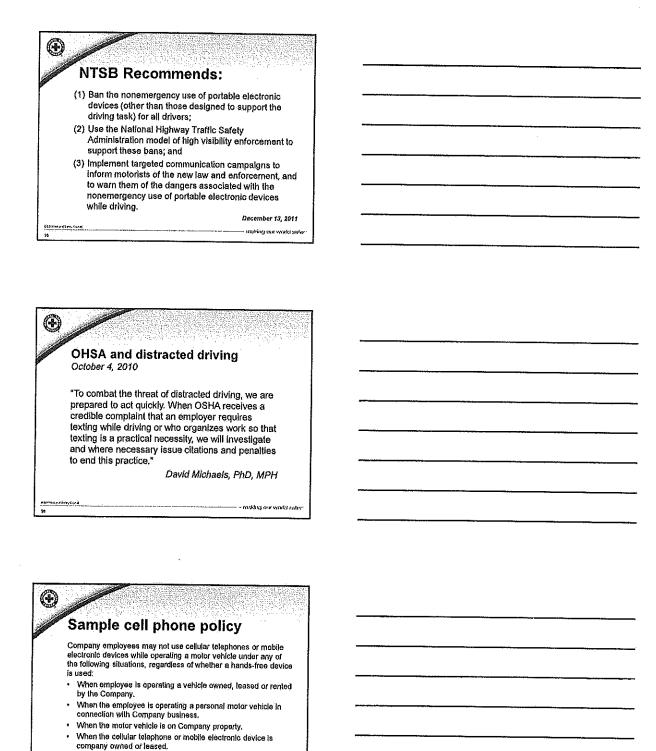
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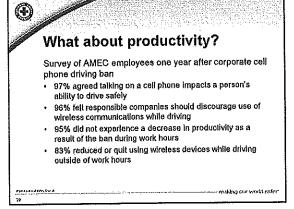


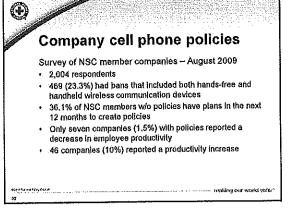




When the employee is using the cellular telephone or mobile electronic device to conduct Company business.

	Companies w	ith	n policies
	Exxon/Mobil	•	Abbott
•	DuPont	•	EnCana
	Halliburton	٠	CSX Intermodal
•	Shell	•	Schneider National
	Chevron	4	Sysco Corporation
	B₽		Time Warner Cable
٠	Enbridge	٠	Potash
٠.	AstraZeneca	٠	Owens Corning
	Spectra Energy		NTSB
•	CA Office of Traffic Safety		
Ju	st a sample - no national databa	se of	f companies with policies
Micros	ker, turn		







Company cell phone policies

Survey of Fortune 500 companies - September 2010

- 20% of Fortune 500 companies surveyed have total bans in place - estimated 2 million+ employees
- 22 percent of companies with total bans said they experienced decreased crash rates, and the same experienced decreased property damage, indicating the
- Among those who responded and had total bans
 - 19 percent said productivity increased
 - 22 percent said productivity remained the same
 - 52 percent don't yet know impact on productivity
 - 7 percent said productivity decreased



Company cell phone policies

Why no decrease in productivity?

- · Most calls are not as "business critical" as assumed
- Every employee and every company "adapts" (e.g. trip
- Employees less stressed they make better decisions
- · Drivers no longer take time from non-driving staff



Employer liability

\$21.6 million: A stay-at-home dad received the award for the violent wreck that killed his wife, after a jury found a driver negligent for either falking on her cell phone or some other distraction.

\$21 million - A soft drink beverage salesperson driving a passenger vehicle was using a hands-free headset, in compliance with a handheld ban, when she struck another vehicle and injured the driver. A jury awarded \$21 milian in damages to the intered driver.

\$20.9 million: Dykes Industries of Little Rock, Ark., lost a personal injury suit in which its employee was using a cell phone when the crash occurred.

\$18 million: Heimes Transport, of Muscle Shoals, Ala, was ordered to pay the damages by a U.S. District Judge to Mark Tiburzi who was left unable to walk or talk after a crash caused by one of their drivers distracted by a cell phone.

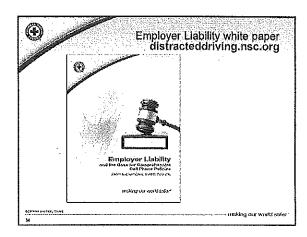
\$5.2 million: International Paper employee Vanessa McGrogan was using her company-supplied cell phone when she rear-ended a vehicle driven by Debra Ford.

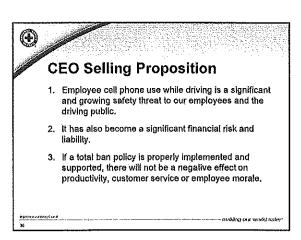
\$2.5 million; State of Hawaij agreed to pay as its share of liability in a crash involving a state amployee who was telsing on her cell phone when she hit a tourist.

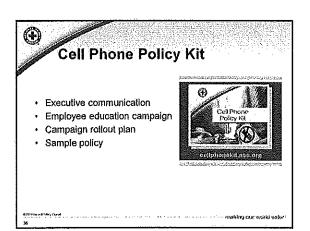
\$1.5 million: City of Palo Alto has agreed to pay the victim of a 2006 vehicle crash

2004/1000/896666 a city-worker who was using his cell-phone while driving... nuclary cur works enter

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Enforcement

- · Standard crash review includes review of cell records
- · Peer to peer enforcement
- · Technology



Technology: may be best solution

- Signal jamming
 - Jamming device in vehicle
 - Limited geographic reach
 Currently illegal
- Smartphone app without vehicle integration
 - Uses phone's GPS to trigger 'driving condition
 - Sends calls to VM, stores texts and emails
- Smartphone app with vehicle integration
 - Sensor plugs in to vehicle OBD port
 - Communicates "driving" to phone via Bluetooth
- Wireless network solution
 - "Thin client" on smart phone signals network of "driving condition"
- Network applies call management tools



Public support

Quinniplac University

- · 2424 US Voters
- November 2010, +/-,02
- By a 63% 34% margin, American voters support a federal ban on cell phone use while driving, even while using a "hands-free" device

Nationwide Insurance "On Your Side Survey"

- · 1008 US drivers
- August 2009, +/- .03
- · 80% support ban on texting or emailing
- · 57% support a ban on all cell phone use while driving

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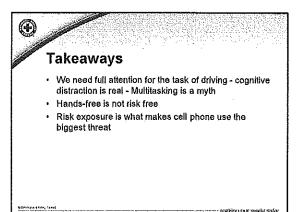
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	Public support				
	According to the National Highway Traffic Safety Administration (NHTSA), current scientific research indicates that using a wireless phone while driving degrades a driver's performance, whether with				,
	priorio virilio circinig uegratos a univers periorinativo, viriliante virilia a hands-free or hand-held wireless phone. NHTSA advises that the safest course of action is to refrain from using a wireless phone while driving.				
	Consider turning your phone off and allowing calls to go to voicemail while driving—for your safely and that of those around you.	·	 		
	-Verizon website ৽ ০০ ক্ষা				
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	Public Positions				
	 Wireless Carriers – generally supportive 				
	Auto and Consumer Electronics Industries				
	"Eyes on the road and hands on the wheel"				
	"Talking - be it interacting with passengers or on the cell phone - has a mixed effect on driving safety. In fect, in the case of drowsy drivers (e.g. truckers), talking on cell phones can actually reduce crashes. Evidence shows that so-called 'cognitive distractions' aren't much of an issue, but physical distractions are,"			. •	
	Source: Ford Motor Company				
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Takeaways

- We need full attention for the task of driving cognitive distraction is real Multitasking is a myth
- · Hands-free is not risk free
- Risk exposure is what makes cell phone use the biggest threat
- A total ban on employee cell phone use while driving is "best safety practice" and your company's best defense against liability exposure,

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•	What you can do
•	Personal example – stop using cell phone when driving (change no answer greeting)
•	Don't talk with people who call you while they are driving
•	Educate employees, drivers, parents, friends and family
•	Implement cell phone driving bans
٠	Support legislation and enforcement
٠	Hold offenders accountable

